CRF Errors Corrected by the STIC Systems Branch

ENTERED (circled S)

Serial Number: 09/904,253

CRF Processing Date: 8/28/2001
Edited by: _____
Verified by: _____ (STIC sta

- ☐ Changed a file from non-ASCII to ASCII

- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- ☐ Edited a format error in the Current Application Data section, specifically: _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

- ☐ Added the mandatory heading and subheadings for "Current Application Data".

- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- ☐ Inserted colons after headings/subheadings. Headings edited included: _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____

- ☐ Inserted mandatory headings, specifically: _____

- ☐ Corrected an obvious error in the response, specifically: _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

- ☐ Corrected an error in the Number of Sequences field, specifically: _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentln bug). Sequences corrected: _____

- ☑ Other: _corrected <307> response - Seg I_ _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

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              RAW SEQUENCE LISTING           DATE: 08/28/2001
              PATENT APPLICATION: US/09/904,753    TIME: 18:47:35

              Input Set : A:\Pto.amc
              Output Set: N:\CRF3\08282001\I904753.raw

      3 <110> APPLICANT: Lynos, Robert T
      5 <120> TITLE OF INVENTION: Use of ANtimicrobal Peptides as Preservatives in
      6        Ophthalmic Preparations, Including Solutions,
      7        Emulsions, and Suspentions
      9 <130> FILE REFERENCE: 2973 ver 2
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/904,753
C--> 12 <141> CURRENT FILING DATE: 2001-07-13
     14 <150> PRIOR APPLICATION NUMBER: WO 96/25183
     15 <151> PRIOR FILING DATE: 1996-08-22
     17 <160> NUMBER OF SEQ ID NOS: 14
     19 <170> SOFTWARE: PatentIn Ver. 2.1
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 23
     23 <212> TYPE: PRT
     24 <213> ORGANISM: Xenopus laevis
     26 <300> PUBLICATION INFORMATION:
     27 <301> AUTHORs: Lee et al.,
     28 <302> TITLE: High-Level Expression of Antimicrobal Peptide Mediated
     29        by a Fusion Partner Reinforcing Formation of Inclusion
     30        Bodies
     31 <303> JOURNAL: Biochem. Biophys. Res. Commun.
     32 <304> VOLUME: 277
     33 <306> PAGES: 575-580
     34 <307> DATE: 2000-09-21
     36 <400> SEQUENCE: 1
     37 Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe
     38   1               5                  10                  15
     40 Val Gly Glu Ile Met Lys Ser
     41               20
     44 <210> SEQ ID NO: 2
     45 <211> LENGTH: 23
     46 <212> TYPE: PRT
     47 <213> ORGANISM: Xenopus laevis
     49 <400> SEQUENCE: 2
     50 Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
     51   1               5                  10                  15
     53 Val Gly Glu Ile Met Asn Ser
     54               20
     57 <210> SEQ ID NO: 3
     58 <211> LENGTH: 22
     59 <212> TYPE: PRT
     60 <213> ORGANISM: Artificial Sequence
     62 <220> FEATURE:
     63 <221> NAME/KEY: PEPTIDE
     64 <222> LOCATION: (22)
     65 <223> OTHER INFORMATION: Xaa at position 22 is Lys-amide
     67 <220> FEATURE:
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```
 68 <223> OTHER INFORMATION: Description of Artificial Sequence: maginin analog
 70 <400> SEQUENCE: 3
 71 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe
 72  1               5                   10                  15
 74 Val Lys Ile Leu Lys Xaa
 75               20
 78 <210> SEQ ID NO: 4
 79 <211> LENGTH: 22
 80 <212> TYPE: PRT
 81 <213> ORGANISM: Artificial Sequence
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Description of Artificial Sequence: maginin analog
 86 <400> SEQUENCE: 4
 87 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe
 88  1               5                   10                  15
 90 Val Lys Ile Leu Lys Lys
 91               20
 94 <210> SEQ ID NO: 5
 95 <211> LENGTH: 37
 96 <212> TYPE: PRT
 97 <213> ORGANISM: silk moth
 99 <400> SEQUENCE: 5
100 Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg
101  1               5                   10                  15
103 Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala
104               20                  25                  30
106 Thr Gln Ile Ala Lys
107           35
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 36
112 <212> TYPE: PRT
113 <213> ORGANISM: silk moth
115 <400> SEQUENCE: 6
116 Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg
117  1               5                   10                  15
119 Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
120               20                  25                  30
122 Lys Ala Leu Gly
123           35
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 38
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: analog of
133       cecropin B
135 <400> SEQUENCE: 7
136 Met Pro Arg Trp Arg Leu Phe Arg Arg Ile Asp Arg Val Gly Lys Gln
137  1               5                   10                  15
```

W--> 74 Val Lys Ile Leu Lys Xaa

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```
139 Ile Lys Gln Gly Ile Leu Arg Ala Gly Pro Ala Ile Ala Leu Val Gly
140            20                  25                  30
142 Asp Ala Arg Ala Val Gly
143            35
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 30
148 <212> TYPE: PRT
149 <213> ORGANISM: human
151 <400> SEQUENCE: 8
152 Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
153   1               5                  10                  15
155 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
156            20                  25                  30
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 29
161 <212> TYPE: PRT
162 <213> ORGANISM: human
164 <400> SEQUENCE: 9
165 Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly
166   1               5                  10                  15
168 Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
169            20                  25
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 30
174 <212> TYPE: PRT
175 <213> ORGANISM: human
177 <400> SEQUENCE: 10
178 Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
179   1               5                  10                  15
181 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
182            20                  25                  30
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 33
187 <212> TYPE: PRT
188 <213> ORGANISM: rabbit
190 <400> SEQUENCE: 11
191 Val Val Cys Ala Cys Arg Arg Ala Leu Cys Leu Pro Arg Glu Arg Arg
192   1               5                  10                  15
194 Ala Gly Phe Cys Arg Ile Arg Gly Arg Ile His Pro Leu Cys Cys Arg
195            20                  25                  30
197 Arg
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 11
203 <212> TYPE: PRT
204 <213> ORGANISM: cow
206 <400> SEQUENCE: 12
207 Arg Leu Cys Arg Val Val Ile Arg Val Cys Arg
208   1               5                  10
211 <210> SEQ ID NO: 13
```

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Input Set : A:\Pto.amc
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```
      212 <211> LENGTH: 26
      213 <212> TYPE: PRT
      214 <213> ORGANISM: Artificial Sequence
      216 <220> FEATURE:
      217 <221> NAME/KEY: PEPTIDE
      218 <222> LOCATION: (26)
      219 <223> OTHER INFORMATION: Xaa at position 26 is Ser-amide
      221 <220> FEATURE:
      222 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid
      223       antimicrobial peptide
      225 <400> SEQUENCE: 13
      226 Lys Trp Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val
      227  1               5                  10                  15
W--> 229 Leu Thr Thr Gly Leu Pro Ala Leu Ile Xaa
      230              20                  25
      233 <210> SEQ ID NO: 14
      234 <211> LENGTH: 16
      235 <212> TYPE: PRT
      236 <213> ORGANISM: Artificial Sequence
      238 <220> FEATURE:
      239 <221> NAME/KEY: PEPTIDE
      240 <222> LOCATION: (16)
      241 <223> OTHER INFORMATION: Xaa at position 16 is Leu-amide
      243 <220> FEATURE:
      244 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid
      245       antimicrobial peptide
      247 <400> SEQUENCE: 14
W--> 248 Lys Trp Lys Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Xaa
      249  1               5                  10                  15
```

VERIFICATION SUMMARY   DATE: 08/28/2001
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14